

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
6 November 2003 (06.11.2003)

PCT

(10) International Publication Number
WO 03/091139 A1

(51) International Patent Classification⁷: B65H 37/04
(21) International Application Number: PCT/US03/09263
(22) International Filing Date: 27 March 2003 (27.03.2003)
(25) Filing Language: English
(26) Publication Language: English
(30) Priority Data:
2002-123403 25 April 2002 (25.04.2002) JP

(71) Applicant (for all designated States except US): 3M IN-
NOVATIVE PROPERTIES COMPANY [US/US]; 3M
Center, Post Office Box 33427, Saint Paul, MN 55133-
3427 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): FUJINO, Takayoshi,
[JP/JP]; 6-2-5-101, Seishin, Sagami-hara, Kanagawa 229-
1116 (JP).

(74) Agents: KNECHT, Harold C., III, et al.; Office of In-
tellectual Property Counsel, Post Office Box 33427, Saint
Paul, MN 55133-3427 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT (util-
ity model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA,
CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (util-
ity model), DE, DK (utility model), DK, DM, DZ, EC, EE
(utility model), EE, ES, FI (utility model), FI, GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ,
LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN,
MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU,
SC, SD, SE, SG, SK (utility model), SK, SL, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

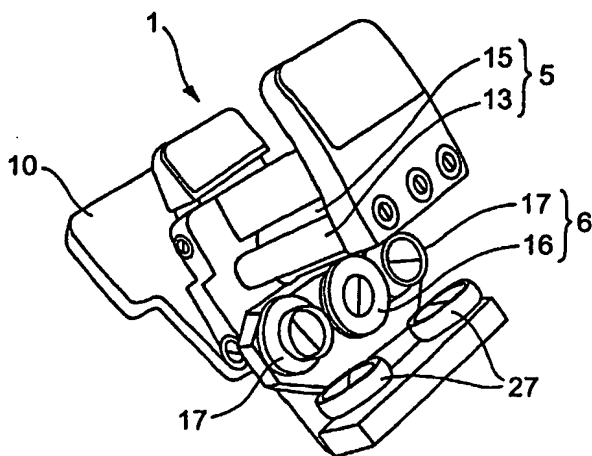
(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: ADHESIVE TAPE APPLICATION TOOL



(57) Abstract: An adhesive tape application tool
(1) usable for applying an adhesive tape to a door
sash frame (80) of a vehicle, for example, quickly
without causing bubbles incorporated or without
deviation of tape applying positions even if the
door sash has a form of a curve with a small radius
or curves steeply with a corner. The adhesive tape
application tool includes: an application part (5)
for pressing an adhesive tape against an application
surface (54), and a guidance part (6) having three
guide rollers (16, 17) having a tapered shape
portion and being in contact with the projected
line portion in such a manner that the guide rollers
pinch the adherend together with the application
part. The guidance part is provided with guide
rollers having a tapered shape portion positioned
at both ends being installed with their top directed
in one direction, and the central guide roller having
a tapered shape portion being installed with its
top directed in other direction (opposite to the
aforementioned direction).

WO 03/091139 A1

INTERNATIONAL SEARCH REPORT

Internal Application No
PCT/US 03/09263

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B65H37/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B65H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 22, 9 March 2001 (2001-03-09) & JP 2001 123127 A (KANSAI PAINT CO LTD), 8 May 2001 (2001-05-08) cited in the application abstract	1-3
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 23, 10 February 2001 (2001-02-10) & JP 2001 171570 A (KANSAI PAINT CO LTD), 26 June 2001 (2001-06-26) abstract	1-3

☒ Further documents are listed in the continuation of box C.

☐ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

23 July 2003

Date of mailing of the international search report

31/07/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Raven, P

Best Available Copy

INTERNATIONAL SEARCH REPORT

Internal	Application No
PCT/US 03/09263	

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>PATENT ABSTRACTS OF JAPAN vol. 2000, no. 21, 3 August 2001 (2001-08-03) & JP 2001 097636 A (THREE M INNOVATIVE PROPERTIES CO), 10 April 2001 (2001-04-10) abstract</p> <hr/>	1-3

Form PCT/ISA/210 (continuation of second sheet) (July 1992)

Best Available Copy

INTERNATIONAL SEARCH REPORT
Information on patent family members

Internat Application No
PCT/US 03/09263

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 2001123127	A	08-05-2001	CA US	2324188 A1 6508287 B1
				26-04-2001 21-01-2003
JP 2001171570	A	26-06-2001	CA WO	2385753 A1 0125077 A1
				12-04-2001 12-04-2001
JP 2001097636	A	10-04-2001	NONE	

Form PCT/ISA/210 (patent family annex) (July 1992)

Best Available Copy